

## SPARK TESTERS

Spark Testing has been used to check and make sure about insulation quality of wire being produced on the insulation line, spark tester apply on inspection, Rewinding, bunching, coiling, tapping extrusion lines.

Spark test equipment is classified by the type of test of voltage applied to the product. Available types include Mains Frequency ,High Frequency (HFAC), Direct current (DC) Spark tester. Types that operate at power Mains Frequency generally 50 to 60 Hz and "High Frequency" types that operate at frequencies between 2500Hz and 3500Hz DC spark tester which applies direct current supply.

### MAINS FREQUENCY SPARK TESTER

This AC spark tester operates at 50 / 60 Hz Mains Frequency. This is usually applicable where line speed is less than 200 meters per minute. AC is measured in RMS (root means squared ). Beautifully Fabricated with rugged structure and adjustable with line height. Spark tester is available from 15Kv to 40Kv test voltage with major compile to the most of the standard.

**FEATURES :** • Confirms to major standards • All digital display for easy readouts • 2 change over signal for different interlocks • Fault Vs length graph & data with recording (optional on demand) • Height adjustable Stand

### HIGH FREQUENCY SPARK TESTER

This AC Spark Tester operates between 2500Hz to 3500Hz frequency. This is normally applicable where line speed is high and diameter is less than 15mm fabricated with rugged structure powder coated and adjustable height with stand. Spark tester covers major standard and reputed norms. Spark tester is available 10kv,15kv test voltage

**FEATURES :** • Confirms to major standards • All digital display for easy readouts • 2 change over signal for different interlocks • Fault Vs length graph & data with recording (optional on demand) • Height adjustable with stand (Accessories) • Mosfet based sine wave low power circuit.

### DC SPARK TESTER

This DC Spark Tester has DC supply measured as Direct voltage. Due to this spark tester does not produce corona (blue flame) so it is gentle on cable or wire surface. Also it has no capacitance effect. Spark Tester covers major standard and reputed norms in the range of 15 kv/25kv test voltage.

**FEATURES :** • Confirms major standard Fault detection on very high speed • Require very less space to install • Robust Design • Absolutely "fatal free" to human • Easy pin hole detection • Height adjustable with stand (Accessories) • 2 change over signal for different interlocks.

### APPLICATION

- Online extrusion insulation test • Online rewinding & testing machine
- Coiling machine • Quality inspection machine • Bunching • Tapping

MFST 15kv to 30kv



HFST



DCST



\* ACCESSORIES AS STAND

TECHNICAL SPECIFICATIONS:	MAINS FREQUENCY	HIGH FREQUENCY	DC
<b>MODEL</b>	<b>MFST – 15/25/40kv</b>	<b>HFST - 10/15kv</b>	<b>DC 15/25kv</b>
Voltage range	1.5 to 15kv / 25kv /40kv	1.5 to 15kv	1.5 to 15/25kv
Test Frequency	50/60hz (Same as Supply Frequency)	2.5 to 3.5khz Sine wave A.C RMS	Direct Current
Wire size	0.5 TO 40mm O.D (60mm on demand)	0.5 to 15mm O.D	0.5 to 15mm O.D (30mm on demand)
Electrode	Bead chain housing of 350mm long	Bead chain housing of 70mm long	Bead chain housing of 70mm long
Max wire speed	200mts/min	2500mts/min	2500mts/min
H.V meter	Digital LED	Digital LED	Digital LED
Sensitivity	Selectable position switch / Adjustable knob	As per standard	As per standard
Fault counter	6 digit LCD self powered	6 digit LCD self powered	6 digit LCD self powered
Power supply	230v AC 50 /60 Hz, 1KVA	230v AC 50/60Hz, 0.5KVA	165 –200VAC, 0.5kVA
Interlocking	By potential free change over	By potential free change over	By potential free change over
Safety	Door interlocking	Door interlocking	Door interlocking
Adjustable wire running height	950mm to 1100mm from ground level	900mm to 1100mm from ground level (With Stand Acc.)	900mm to 1100mm from ground level (With Stand Acc.)
Dimension in MM (15kv)	820 Wx 1160 H x 460D	450W x 336H x 405D	282W x 252H x 270D
Approximate Weight (15kv)	80 kg	20.4 kg	7.94 kg

## DC HV CABLE TESTER FOR DRUM TESTING

**FEATURES :** • Easy to operate • Digital KV meter and mAmp meter • Electronic tripping circuit • Visual indication of status of test • Mosfet based electronics with very low current • Timer : Digital to set the test duration. • Can be used as inhouse/outdoor test of cable drum • Softly autodischarge facility • Soft and gentle built up of HV across the coli/drum and remain gentle to the cable during the test. • Very low power consumption with compared to AC HV test method less then 200watts. • Robust and portable housing.

**Model : DCHV20B**

**SPECIFICATION :** • Voltage Range : 0.5 to 20 kv • Out put current : 1mA • Fault indicator : Audio & Video combine on top • 10 meter HV test probe • Current meter : 3½ Digit LED 7 segment Display • Safety : HV Chamber door, interlock • Dimensions in mm : 300 (w) x 350 (H) x 300 (D) • Weight : 10.5kg

DCHV TESTER



## CALIBRATOR

It becomes essential to calibrate, check the performance of the equipment particularly used in the production specially for the equipment related to quality check. Spark tester is one of the critical test equipment used to verify the quality of the wire being produced to make sure about the quality, performance of the spark tester. Spark tester calibrator is designed for the industry which has most of the required features in accordance to most of the standards.

**FEATURES :** • Shows short circuit current (max) equipment of the spark tester • 60 faults/min verification with help of rotating object as per most of the standard specifications. • High voltage measurement verification with the help of kv meter • Frequency display shows the frequency of electrode (check point ) in case of mains and high frequency spark tester. • Time to set the verification time for the spark tester. • To show the number of artificial fault this helps to verify the fault counter of the spark tester.

CALIBRATOR

